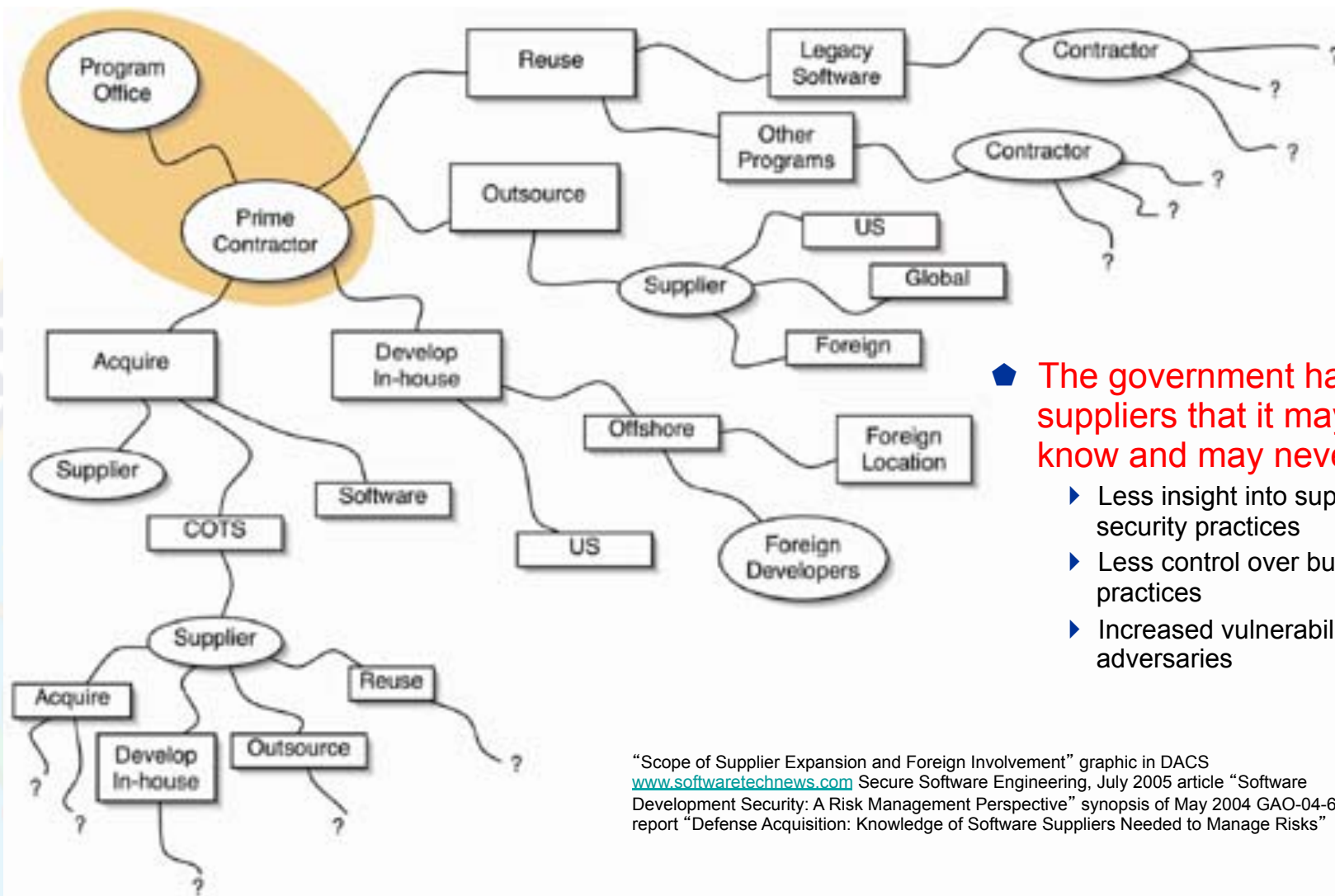




Globalization is good, but it brings challenges



◆ The government has suppliers that it may not know and may never see

- ▶ Less insight into suppliers' security practices
- ▶ Less control over business practices
- ▶ Increased vulnerability to adversaries

"Scope of Supplier Expansion and Foreign Involvement" graphic in DACS
www.softwaretechnews.com Secure Software Engineering, July 2005 article "Software Development Security: A Risk Management Perspective" synopsis of May 2004 GAO-04-678 report "Defense Acquisition: Knowledge of Software Suppliers Needed to Manage Risks"



ICT components enable our Digital / Information Age

- Dependencies on technology are greater then ever

-- Possibility of disruption/sabotage is greater than ever because hardware/software is vulnerable

--- Loss of confidence alone can lead to stakeholder actions that disrupt critical business activities



Internet users in the world: 1,766,727,004
E-mail messages sent today: 215, 674, 475, 422
Blog Posts Today: 458, 972
Google searches Today: 2,302,204,936

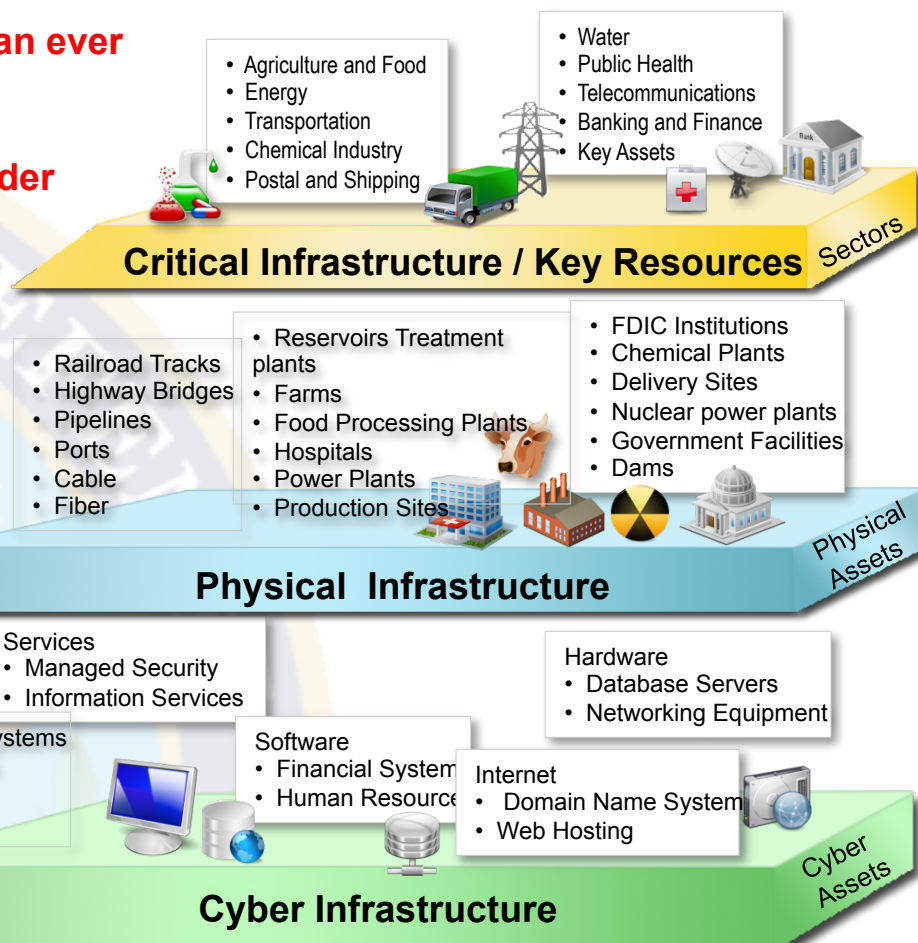
Who is behind data breaches?

74% resulted from external sources (+1%).
20% were caused by insiders (+2%).
32% implicated business partners (-7%).
39% involved multiple parties (+9%).

How do breaches occur?

7% were aided by significant errors (<>).
64% resulted from hacking (+5%).
38% utilized malware (+7%).
22% involved privilege misuse (+7%).
9% occurred via physical attacks (+7%).

* Source – 2009 Verizon Data Breach Investigations Report





Not only do we have an

increasingly

Global-Interdependent Supply Chain,

we also have a world of

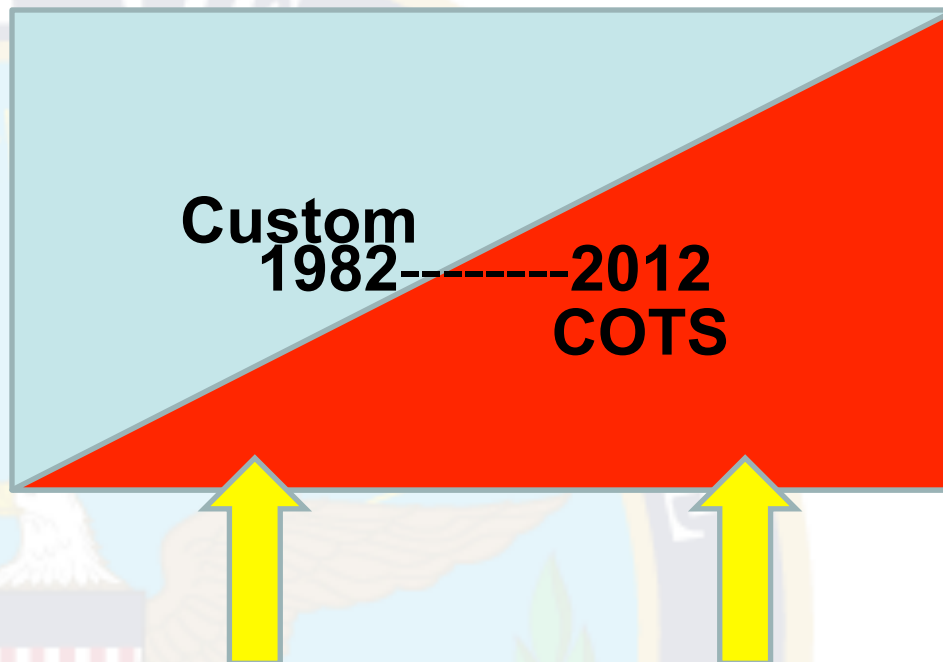
Capabilities, that are

increasingly

Dependent on Globally Sourced ICT.



...also...increasingly Dependent on COTS products





Govt-SCRM-related Developments

- ◆ CNCI-SCRM still alive & well
- ◆ CNSS DIRECTIVE 505 on SCRM from Committee on National Security Systems (FOUO)
- ◆ NIST-IR 7622 & NIST 800-53 rev4 due soon (US.gov-only participates in SCRM WG2)
http://csrc.nist.gov/news_events/index.html
NIST hosted Public-Private SCRM Workshop on 15-16 Oct2012
- ◆ "IT Supply Chain: National Security-Related Agencies Need to Better Address Risks",
GAO-12-361, Mar 23
<http://www.gao.gov/products/GAO-12-361>
both DOE & DOJ have now "stood-up SCRM Focal Points"
- ◆ DODI 5200.mm on Trusted Systems & Networks...VERY NEAR PUBLICATION
- ◆ USD AT&L Memo on Program Protection Planning (PPP) July 2011
- ◆ Monthly TSN RoundTable Meetings & NEW Quarterly TSN/PP Executive Council Meetings



Recent Evolution of Strategy & Policy

Counterfeit Microelectronics---L&MR lead

Who is working this (DoD, US,gov, public-private, standards)
& NDAA' 12 Section 818...upcoming NDAA' 13 ?

- Learn from Quality Assurance & Safety Critical Items Practices
- Procurement & Acquisition-Contracts
- Testing (life cycle doc, acceptance, follow-up analysis)
- Reporting
- WorkForce Development (training & education)
- Standards

Software Assurance---AT&L-SE lead

Who is working this (DoD, US,gov, public-private, standards)
& NDAA' 11 Section 932... upcoming NDAA' 13 ?

- Learn from Quality Assurance & Safety Critical Items Practices
- Procurement & Acquisition-Contracts
- Testing (life cycle doc, acceptance, follow-up analysis)
- Reporting
- WorkForce Development (training & education)
- Standards



HW/SW-Test SOAR Update

- ◆ **Mini-SOAR / SOAR-lite effort** deemed success w/o final report- (draft to be issued)- purpose was leader visibility & establish need for HW/SW-testing SOAR in FY13.
- ◆ **FY13 SOAR PURPOSE:** Provide state-of-the-art software, hardware, and integration information for Program Offices via “SOAR”-like product addressing security aspects for HW/SW components (with emphasis on acceptance testing &/or required test-documentation)... read as risk mitigation tools for incorporation in PPP.



Current Testing-SOAR Activity

◆ SOAR on Security T&E of HW/SW

- ▶ ATL&CIO baseline Testing SOAR product initiated now with FY12\$
 - Product by October 2013
 - Published in hardcopy via DTIC? by December 2013
 - Develop “document” in anticipation of being web-enabled**
- ▶ ATL&CIO & NSA-CAS fund(s) updated for SOAR+ follow-on with FY13\$
 - Demonstrate product as web-enabled digital media capable of regular update and refresh with on-demand hard copy production
 - Add annex/appendix on current DoD concerns; such as mobility HW/SW security, integrated T&E security extensions
 - Continue development of emerging immature content**; such as Integrity Test and Analyses (ITA) for sophisticated adversaries exploiting Supply Chain and other opportunities (including classified annex)

◆ Vehicle to Execute

- ▶ FY12\$ Contract-Task with IDA
- ▶ FY13\$- TBD